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FEED STUFF ANALYSES.

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ADDRESS

Chemical Department, Maryland Agricultural College,

COLLEGE PARK, MD.

ANALYSIS OF

Commercial Feeding Stuffs Sold in Maryland

BY THE CHEMICAL DEPARTMENT OF

THE MARYLAND AGRICULTURAL COLLEGE.

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This bulletin contains the analyses of samples of feed stuffs which have been obtained since January, 1908. The arrangement is in alphabetical order of manufacturers.

The analyses are not complete, but show the percentage of protein and fat, which is sufficient for ordinary purposes, as the quality of the feed may be readily judged from these constituents, the most important of which is the protein.

Protein is the nitrogenous part of the feed and is absolutely necessary to build muscle, sinews, nerves, hair, feathers, etc., in fact, enters into the composition of all essential parts of the body.

Fat can only serve as a fuel or energy producer, or to build fatty tissue, which is only a reserve fuel supply for the animal, whatever it may be. Protein may also serve as an energy producer and may be used to form fat, but the use for such purposes is not profitable.

It should be remembered that in materials very low in protein, as straw, corn bran, oat hulls, peanut hulls, etc., a smaller percentage of the protein is digestible than is the case with high-grade feeds.

This department wishes to have the cooperation of feeders and dealers in the inspection of concentrated feeds and will be glad to analyze samples, provided samples of the same feeds have not been recently analyzed in the department. Before sending samples write for blanks and instructions. We will not analyze samples of medicines, "condition powders," condimental feeds, or the so-called "feeds" that are "five feeds for a cent" to be mixed with the regular feed. Careful experiments at a number of the experiment stations have proved that these medicinal "feeds" are of no practical value.

Concentrated feeding stuffs are generally by-products and the analysis of any one of them will vary some, depending on the method of preparation, etc.

The following should be the minimum analysis of the standard feeds named:

	PROTEIN.	FAT.	
Cotton Seed Meal	40 Per Cent.	8 to 9 Per Cent.	
Linseed or Flax Seed Meal	36 "	7 "	
—Oil Cake Meal	38 "	2 "	(new process)
Gluten Meal	33 to 36 "	2 "	
Gluten Feed	25 "	3 "	
Germ Oil Meal	23 "	10 "	
Malt Sprouts	23 "	1 to 2 "	
Dried Brewers' Grains	20 "	3 "	
Wheat Middlings	17 to 18 "	5 "	
Wheat Bran	15 "	4 to 5 "	
Ground Oats	10 to 12 "	4 to 5 "	
Corn Meal	9 to 11 "	3 to 5 "	
Meat and Bone Meal	40 "	10 "	
Meat Meal	60 "	10 "	

It should be remembered that the analysis does not indicate the palatability of the feed, or if it is musty, moldy or sour. These conditions are generally easily recognized by simple inspection—the appearance, odor, etc., or by the animals refusing the feed. Moldy corn is frequently kiln-dried and, while this prevents further growth of the mold, it does not restore the feed to prime condition. It is not relished by animals and is unwholesome. It is false economy to use damaged feed, even if the feed is "cheap."

ANALYSES OF FEEDING STUFFS.

No.	Name of Manufacturer or Agent.	Name of Feeding Stuff.	Place of Sampling.	Protein.		Fat or Ether Extract.	
				Found.	Guaranteed.	Found.	Guaranteed.
13407a	American Cereal Co., Chicago, Ill.	Schumacher's Stock Food.	Middleburg.....	11.14	10.	4.27	4.
13397	American Cotton Oil Co., Memphis, Tenn.	Choice Cotton Seed Meal.	Westminster	44.22	41.	9.98	9.
13398	American Linseed Co., New York, N. Y.	Old Process Oil Meal...	Westminster	37.04	32.	6.90	5.
13405a	American Milling Co., Chicago, Ill.	Sucrene.....	Detour.....	14.30	10.	6.00	3.
18221	American Milling Co., Chicago, Ill.	Sucrene Dairy Feed....	Hyattsville.....	19.04	16½.	6.00	3½.
13400a	American Milling Co., Chicago, Ill.	Sucrene Dairy Feed....	Taneytown.....	18.95	16½.	5.55	3½.
18231	American Milling Co., Chicago, Ill.	Sucrene Dairy Feed....	Freeland	18.16	16½.	7.33	3½.
13406a	American Milling Co., Chicago, Ill.	Sucrene Poultry Feed..	Detour..... ...	18.60	17½.	5.92	5½.
13419a	Armour Fertilizer Works, Baltimore, Md.	Beef Scraps.....	Baltimore	54.76	55.	27.05	12.
13420a	Armour Fertilizer Works, Baltimore, Md.	Fine Ground Bone for Poultry & Stock Feeding	Baltimore.....	25.27	.....	0.47	.....
13421a	Armour Fertilizer Works, Baltimore, Md.	Granulated Poultry Bone.	Baltimore.....	27.29	25.	1.95	5.
18215	Armour Fertilizer Works, Baltimore, Md.	Meat Meal.....	Baltimore.....	63.18	50.	13.00	10.
13410a	Baltimore, Pearl Hominy Co., Baltimore, Md.	Corn Oil Meal	Baltimore.....	17.11	.....	8.65	.....
18213	Baugh & Sons Co., Baltimore, Md.	Meat Meal for Poultry..	Baltimore.....	63.88	50.	17.02	14.
18229	Baugh & Sons Co., Baltimore, Md.	Special Ground Bone for Poultry.	Baltimore.....	27.64	4½.*	2.40	.....
18200	J. Bolgiano & Son Co., Baltimore, Md.	Square Deal Chick Food.	Baltimore.....	8.69	10.01	2.75	3.89

* Guaranteed 4½% ammonia.

18200	J. Bolgiano & Son Co., Baltimore, Md.	Square Deal Chick Food.	Baltimore.....				

* Guaranteed 4½% ammonia.

18201	J. Bolgiano & Son Co., Baltimore, Md.	Square Deal Chick Starter.	Baltimore.....	9.83	9.48	3½.	4.14
13411a	J. Bolgiano & Son Co., Baltimore, Md.	Square Deal Pigeon Food.	Baltimore.....	13.16	11.06	3.75	4.44
13412a	J. Bolgiano & Son Co., Baltimore, Md.	Square Deal Poultry Food.	Baltimore.....	9.30	11½.	3.12	3.87
13396	H. E. Bridges & Co., Memphis, Tenn.	Cotton Seed Meal.....	Westminster.....	43.88	41.	9.15	9.
18228	F. W. Brode & Co., Memphis, Tenn.	Dove Brand Pure Cotton Seed Meal.	Baltimore.....	39.66	38.	7.57	7.
13399	F. W. Brode & Co., Memphis, Tenn.	Owl Brand Cotton Seed Meal.	Taneytown.....	41.76	38.	8.82	7.
18222	F. W. Brode & Co., Memphis, Tenn.	Pure Cotton Seed Meal Owl Brand.	Rocks.....	42.82	41.	9.30	6½.
18216	John J. Buffington & Co., Baltimore, Md.	Buff Brand Chick Feed.	Baltimore.....	10.53	10½.	3¼.	3
13297	Chapin & Co., Philadelphia, Pa.	Ajax Flakes.....	Rising Sun.....	32.78	33.	14.66	12.
13409a	Corn Product's Refining Co., New York.	Warner's Diamond Gluten Feed.	Sparrows Point...	25.36	23.	3.02	2½.
13313	Cotton Oil & Fibre Co., Norfolk, Va.	Cotton Seed Meal.	Benson.....	15.80	.....	4.52	.....
18202	Cyphers Incubator Co., Buffalo., N. Y.	Developing Food..... ..	Baltimore.....	11.06	10.	2.95	3.72
18203	Cyphers Incubator Co., Buffalo, N. Y.	Forcing Food.....	Baltimore.....	12.29	12.80	3.52	4.40
18204	Cyphers Incubator Co., Buffalo, N. Y.	Laying Food.....	Baltimore.....	19.22	.....	3.60	.....
18205	Cyphers Incubator Co., Buffalo, N. Y.	Mealed Alfalfa	Baltimore.....	19.48	17.6	4.55	4.
18206	Cyphers Incubator Co., Buffalo, N. Y.	Scratching Food.....	Baltimore.....	11.58	10¼.	3.00	5.38
18207	Darling & Co., Chicago, Ill.....	Beef Meal.....	Baltimore.....	39.32	45.	13.50	10.
18208	Darling & Co., Chicago, Ill.....	Granulated Bone for Poultry.	Baltimore.....	25.62	20.	2.22	2.

ANALYSES OF FEEDING STUFFS.

No.	Name of Manufacturer or Agent.	Name of Feeding Stuff.	Place of Sampling.	Protein.		Fat or Ether Extract.	
				Found.	Guaranteed.	Found.	Guaranteed.
13403a	Decatur Cereal Co., Decatur, Ill.	Hominy Feed.....	Linwood.....	10.09	11.02	6.85	7.70
18232	Great Western Cereal Co., Chicago, Ill.	Boss Chop Feed.....	White Hall.....	8.16	8.	4.00	5.
13413a	Great Western Cereal Co., Chicago, Ill.	Boss Chop Feed.....	Baltimore.....	8.51	10.	4.27	5.
18226	Great Western Cereal Co., Chicago, Ill.	Daisy Dairy Feed.....	Annapolis.....	12.64	16.	4.05	4.
18223	Great Western Cereal Co., Chicago, Ill.	Sterling Chick Feed....	Fallston..... ..	10.00	12.	2.57	3½.
18218	Great Western Cereal Co., Chicago, Ill.	Sterling Scratch Feed..	Berwyn	10.97	12.	3.65	3.
13391	Great Western Cereal Co., Chicago, Ill.	Sterling Stock Food....	Westminster	10.88	11.	3.75	4.
18230	Great Western Cereal Co., Chicago, Ill.	Sterling Stock Food....	Barnesville.....	10.09	11.	3.13	4.
13338	Humphry Godwin & Co., Memphis, Tenn.	Cotton Seed Meal.....	Westminster	44.40	41.	8.10	9.
13382	Humphry Godwin & Co., Memphis, Tenn.	Cotton Seed Meal.....	Westminster	46.34	41.	9.37	9.
13393	J. H. Keeney, Eklo, Md.....	Heavy Bran.....	Parkton.....	17.46	.....	4.65	.....
13392	J. H. Keeney, Eklo, Md.....	Light Bran.....	Parkton.....	16.58	.....	3.90	.....
13388	Chas. A. Krause Milling Co., Milwaukee, Wis.	Badger Dairy Feed.....	Cockeysville.....	18.69	18.	6.30	4½.
13408a	A. McGinnis Co., Baltimore, Md.	Dried Distillers Grains..	Baltimore.	19.88	.....	8.12	.....
13394	Melvale Distilling Co., Baltimore, Md.	Dried Swill.....	Baltimore.	19.92	.....	9.22	.....
18224	Michigan Starch Co., Traverse City, Mo.	Gluten Feed.....	Bel Air.....	19.92	25.	3.65	3.
13402a	Michigan Sugar Co., Bay City, Mich.	Dried Beet Pulp.....	Union Bridge.....	9.39	8.	0.67	4.
13418a	Midland Poultry Food Co., Kansas City, Mo.	Egg & Feather Producing Food.	Union Bridge.....	16.15	19.90	3.80	3½.
18225	Molasses Feed Co., Milwaukee, Wis.	Prize Dairy Feed.....	Bel Air.....	6.49	17.	3.67	3.
13401a	E. P. Mueller, Milwaukee, Wis..	Mueller's Molasses Feed.	Taneytown.....	6.14	1.	2½.	1.

13418a	Midland Poultry Food Co., Kansas City, Mo.	Egg & Feather Producing Food.	Union Bridge.....	16.15	19.90	3.80	3½.
18225	Molasses Feed Co., Milwaukee, Wis.	Prize Dairy Feed.....	Bel Air.....	6.49	17.	3.67	3.
13401a	E. P. Mueller, Milwaukee, Wis..	Mueller's Molasses Feed.	Taneytown.....	6.14	1.	2½.	1.
13386	F. P. Mueller, Milwaukee, Wis..	Mueller's Molasses Feed.	Westminster.....	9.21	1.	1.75	1.
13414a	N. C. Cotton Oil Co., Henderson, N. C,	Cotton Seed Meal.....	Baltimore.....	38.56	7½.*	7.67	.....
13381	Ohio Feed Co.....	Manitoba Maize Feed...	Williamsburg.....	11.76	19.	3.32	7.
18209	Purina Mills, St. Louis, Mo.....	Alfalfa Meal.....	Baltimore.....	15.97	16.	2.80	2.
18210	Purina Mills, St. Louis, Mo.....	Mash.....	Baltimore.....	16.76	.....	3.27	.....
13415a	Purina Mills, St. Louis, Mo.....	Mash Size.....	Baltimore.....	18.43	11.	3.17	3.60
13416a	Purina Mills, St. Louis, Mo.....	Scratch Size.....	Baltimore.....	12.99	11.	2.64	3.60
13395	Quaker Oats Co., Chicago, Ill....	Schumacher's Scratch Feed.	Middleburg.....	10.30	10½.	3.17	3.
13387	Quaker Oats Co., Chicago, Ill....	Schumacher's Stock Food.	Union Mills.....	12.55	12.	4.37	4.
18211	W. G. Scarlett & Co., Baltimore, Md.	Oriole Brand H. G. Poultry Feed.	Baltimore.....	12.90	10.71	3.80	4.41
18212	W. G. Scarlett & Co., Baltimore, Md.	Shield Brand H. G. Chick Feed.	Baltimore.....	11.85	9.56	3.65	3.64
18233	Sherwood Distilling Co., Cockeysville, Md.	Dairy Food.....	Cockeysville.....	17.46	.....	13.22	.....
18227	E. H. Shuster & Co., Woodbury, N. J.	Coarse Chick Manna....	Preston.....	8.51	10.63	2.70	4.83
18214	W. A. Simpson & Co., Baltimore, Md.	Purity Poultry Feed....	Baltimore.....	12.20	10½.	3.47	3.
13383	Swan Creek Milling Co., Aberdeen, Md.	Wheat Middlings.....	Havre de Grace..	13.60	.....	3.92	.....
13384	Swan Creek Milling Co., Aberdeen, Md.	Winter Wheat Bran....	Havre de Grace..	14.13	.....	3.70	.....
13385	Washburn Crosby Co., Indianapolis, Ind.	Spring Wheat Bran....	Havre de Grace..	15.97	.....	4.95	.....
18220	Washburn-Crosby Co., Indianapolis, Ind.	Flour Middlings.....	Jessup.....	18.95	17.	5.57	5.
18219	Washburn-Crosby Co., Indianapolis, Ind.	Wheat Standard Middlings.	Jessup.....	17.02	16.	5.47	4.
13404a	J. Lindsay Wells, Memphis, Tenn.	Cotton Seed Meal Star Brand.	New Windsor....	46.34	41.	8.32	9.
18217	Western Dairy Feed Co., Milwaukee, Wis.	Red Cow Dairy Feed..	Cecilton.....	15.36	17.	1.87	3.
13389	Western Grain Product's Co., Hammond, Wis.	Hammond Dairy Feed..	Glencoe.....	18.43	17.	6.31	3.

*Guaranteed 7½% ammonia

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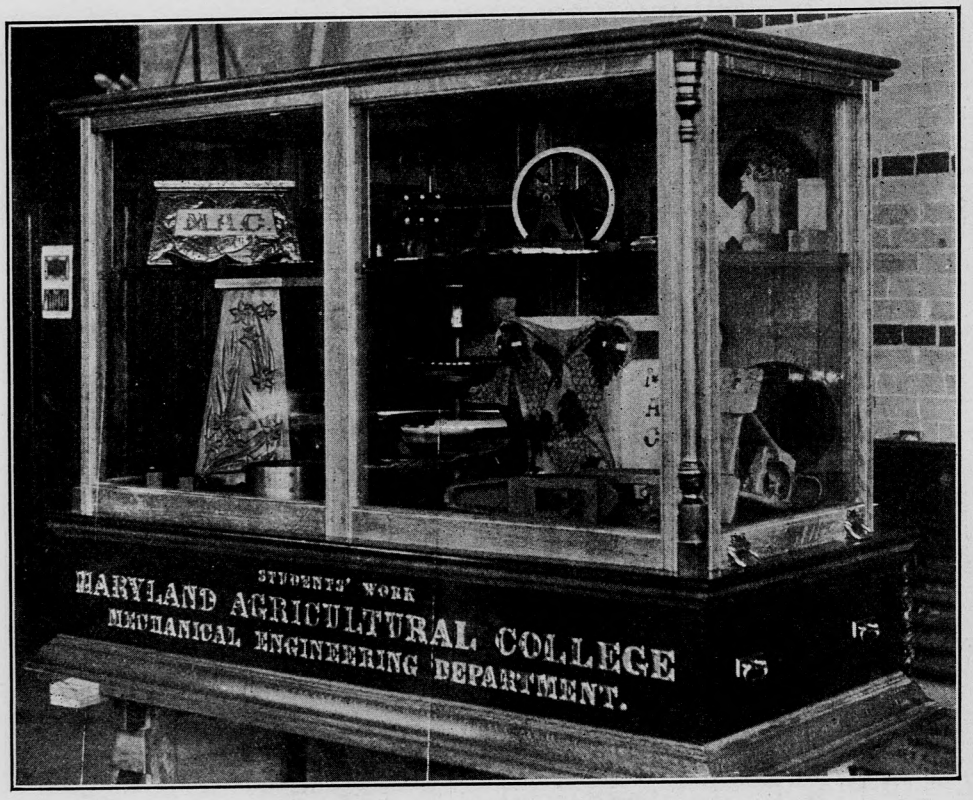

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